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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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11/18/2008

OSTRAGER CHONG FLAHERTY & BROITMAN, P.C. 570 LEXINGTON AVENUE FLOOR 17 NEW YORK, NY 10022-6894

EXAMINER

MICHENER, JOSHUA J

ART UNIT

PAPER NUMBER

3644

DATE MAILED: 11/18/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,372	09/14/2004	Steven D. Richardson	04-0734	5371

TITLE OF INVENTION: TANDEM ROTOR WING ROTATIONAL POSITION CONTROL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  64722 7590 11/18/2008  OSTRAGER CHONG FLAHERTY & BROITMAN, P.C. 570 LEXINGTON AVENUE FLOOR 17			Fee pap	(s) Transmittal. This	s certificate can paper, such as	not be used for an assignment	domestic mailings of the any other accompanying or formal drawing, must
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			Stat add tran	States Postal Service with sufficient postage for first class mail in an envelo addressed to the Mail Stop ISSUE FEE address above, or being facsimitransmitted to the USPTO (571) 273-2885, on the date indicated below.			
NEW YORK, N	Y 10022-6894						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DO	OCKET NO.	CONFIRMATION NO.
10/711,372	09/14/2004		Steven D. Richardson		04-073	34	5371
TITLE OF INVENTION	; TANDEW ROTOR W	ING ROTATIONAL FOR	SITION CONTROL SYST	EW			
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL	FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/18/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MICHENER	R, JOSHUA J	3644	2 <del>44</del> -017110				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			or agents OR, alternati (2) the name of a single registered attorney or	of up to 3 registered patent attorneys Illustratively,  f a single firm (having as a member a ney or agent) and the names of up to tent attorneys or agents. If no name is			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	THE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	atent. If an assigne assignment. 7 and STATE OR C	OUNTRY)		_
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co.	rporation or oth	er private grou	p entity 🖵 Government
4a. The following fee(s)  lssue Fee	are submitted:	41	b. Payment of Fee(s): (Plea A check is enclosed.	se first reapply an	y previously pa	nid issue fee sh	own above)
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to chargosit Account Numbe	ge the required f	ee(s), any defi (enclose an	ciency, or credit any extra copy of this form).
5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu		☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regis	tered attorney o	or agent; or the	assignee or other party ir
Authorized Signature				Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or a 1.14. This collection is estable the depending upon the individence of the complete the complete of the complete	retain a benefit by the cimated to take 12 n ridual case. Any color, U.S. Patent and TO THIS ADDRESS.	ne public which ninutes to compound to the Frademark Offic SEND TO: Co	is to file (and blete, including amount of time ce, U.S. Departments for missioner fo	by the USPTO to process) gathering, preparing, and you require to complete timent of Commerce, P.O. r Patents, P.O. Box 1450

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10/711,372	09/14/2004	Steven D. Richardson	04-0734	5371		
64722 75	64722 7590 11/18/2008			EXAMINER		
OSTRAGER CH	ONG FLAHERTY &	MICHENER, JOSHUA J				
570 LEXINGTON	AVENUE	ART UNIT	PAPER NUMBER			
FLOOR 17 NEW YORK, NY	10022-6894		3644 DATE MAILED: 11/18/200	8		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 414 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 414 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/711,372	RICHARDSON, STEVEN D.			
Notice of Allowability	Examiner	Art Unit			
	JOSHUA J. MICHENER	3644			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subject	application. If not included tion will be mailed in due course. <b>THIS</b>			
1. This communication is responsive to <u>amendment 8/18/200</u>	<u>08</u> .				
2. X The allowed claim(s) is/are 4-12,14-23,25 and 41-43.					
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>					
<ul> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of</li></ul>	son's Patent Drawing Review (PI s Amendment / Comment or in th .84(c)) should be written on the dra he header according to 37 CFR 1.1	e Office action of  awings in the front (not the back) of 21(d).  L must be submitted. Note the			
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/18/2008  4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. ☐ Notice of Informa 6. ☐ Interview Summa Paper No./Mail 7. ☑ Examiner's Ame	al Patent Application ary (PTO-413), Date			
of Biological Material	9.	9.			

#### DETAILED ACTION

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/18/2008 has been entered.

# **Drawings**

The Drawings filed 9/14/2004 have been accepted by the Examiner.

## Election/Restrictions

Claim 42 is an allowable generic claim.

Claims 14 – 17 drawn to the non-elected species have been rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 1/8/2007 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction

requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPO 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dennis Flaherty on 11/6/2008.

The application has been amended as follows:

Claim 14: "claim 3" has been CHANGED to --claim 42--;

Claim 41, line 17: - -in relation to said second rotor- - has been added AFTER "rotor";

Claim 42, line 23:- -in relation to said second rotor- - has been added AFTER "rotor";

Claim 43, line 28: - -in relation to said second rotor- - has been added AFTER "rotor";

## Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach the overall combination of claims 41, 42, or 43 wherein the controller is programmed to determine the relative rotational position of said first and second rotors as a function of said rotor signals, compare said relative rotational position of said first and

Art Unit: 3644

second rotors with a specified angular tolerance, and adjust a rotational speed of said first rotor in relation to said second rotor in response to said comparison showing that said relative rotational position of said first and second rotors is outside said specified angular tolerance because prior art dual rotor systems teach of synchronized rotors through mechanical linkages thus one of ordinary skill would not adjust one rotor in relation to the other AND further one of ordinary skill would NOT find it obvious to program a controller to perform ALL the tasks in combination as this would go against the current state of the art and one would have no reason to do so.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA J. MICHENER whose telephone number is (571)272-1467. The examiner can normally be reached on Monday through Friday 7-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Mansen can be reached on 571-272-6608. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3644

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael R Mansen/ Supervisory Patent Examiner, Art Unit 3644

/J. J. M./